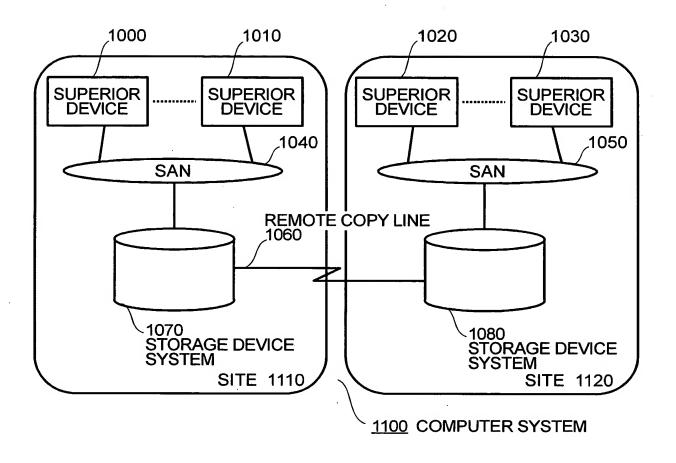
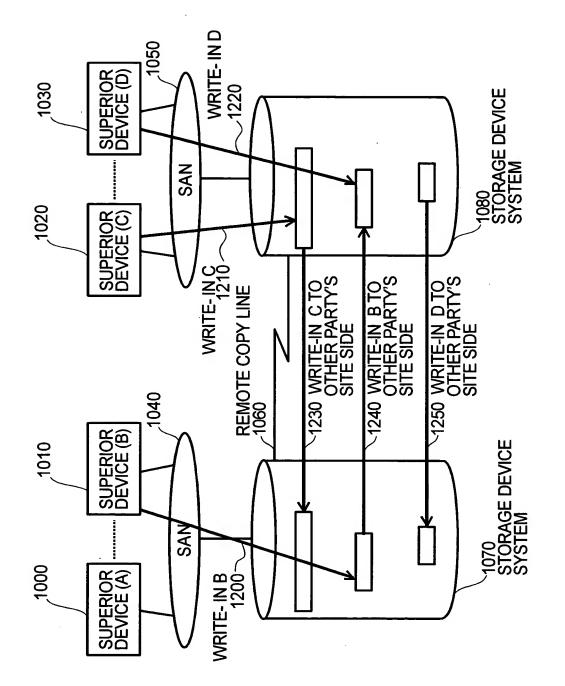
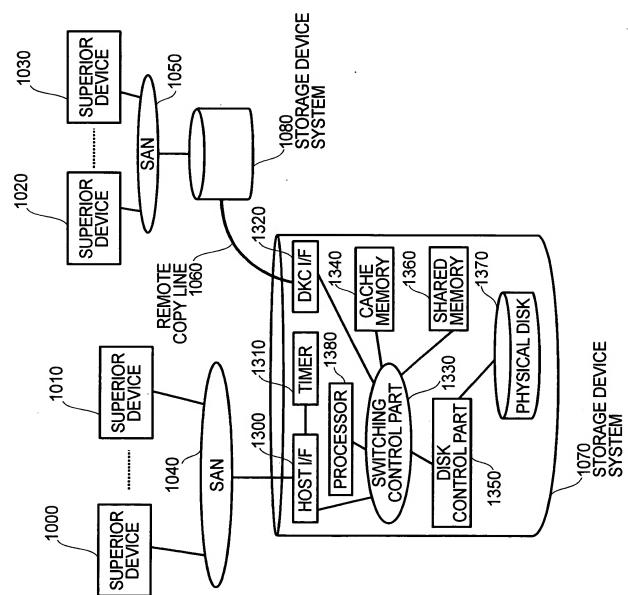
FIG.1

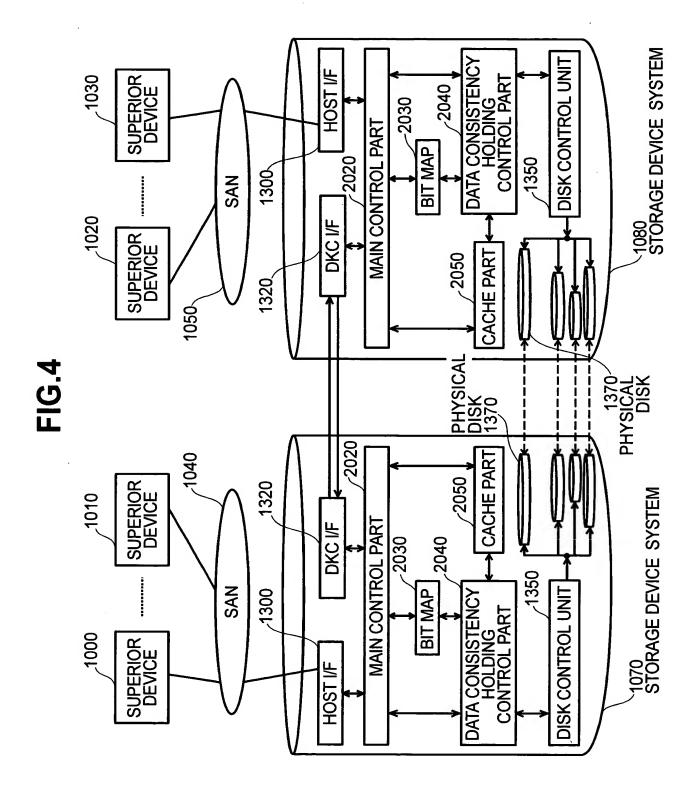


**FIG.2** 



. .





, y .

CACHE DATA STORAGE ADDRESS STORAGE SERIAL NUMBER ----OBJECT SIZE 1 OBJECT BLOCK START 8 ADDRESS | | | | | | | 100 DATA CONSISTENCY HOLDING TABLE RECEPTION SUPERIOR DEVICE TIME IDENTIFICATION NUMBER 00:00:00 00:01:30 00:01:40 TABLE CONTROL NUMBER

00:03:10

9-

/2030 BIT MAP TABLE

107

										3LE	
0	1	0	0	7	0	0	0	1	0	200 TEMPORARY BIT MAP TABI	
1	1	1	0	1	0	0	0	1	0	r MA	0
0	1	1	0	-	0	0	0	1	0	Y BIT	0
1	0	1	0	1	0	0	0	1	0	RAR	0
1	0	1	0	0	0	0	1	1	0	MPO	<b>-</b>
0	0	1	0	0	0	0	1	0	0	O TE	-
0	0	1	0	0	0	0	1	0	0	) <u>2</u> 0	-
0	0	1	0	0	0	0		0	0	4	
0	0	1	0	0	0	0		F	0		
1	1	1	0	0	0	0	7		0		***************************************
											<b>/</b>

-1G.6

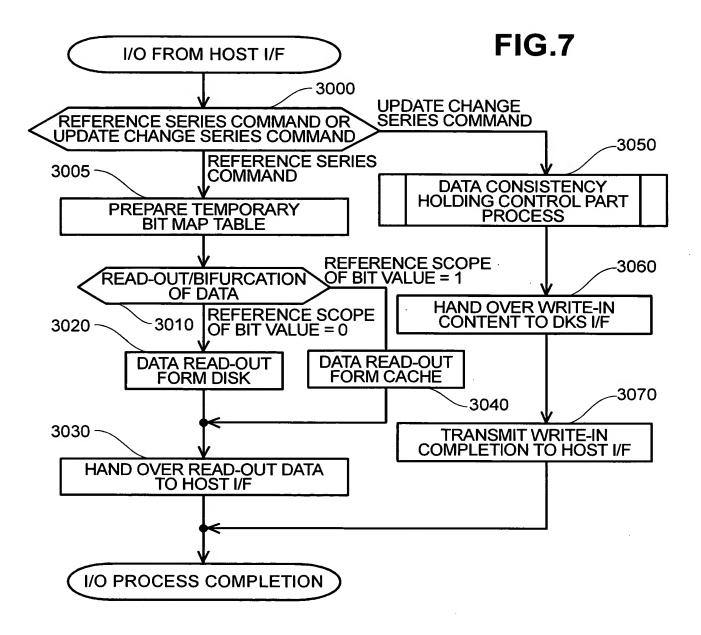
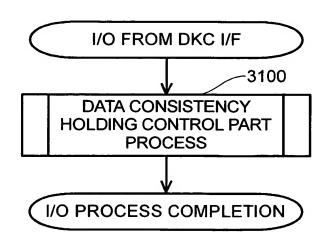
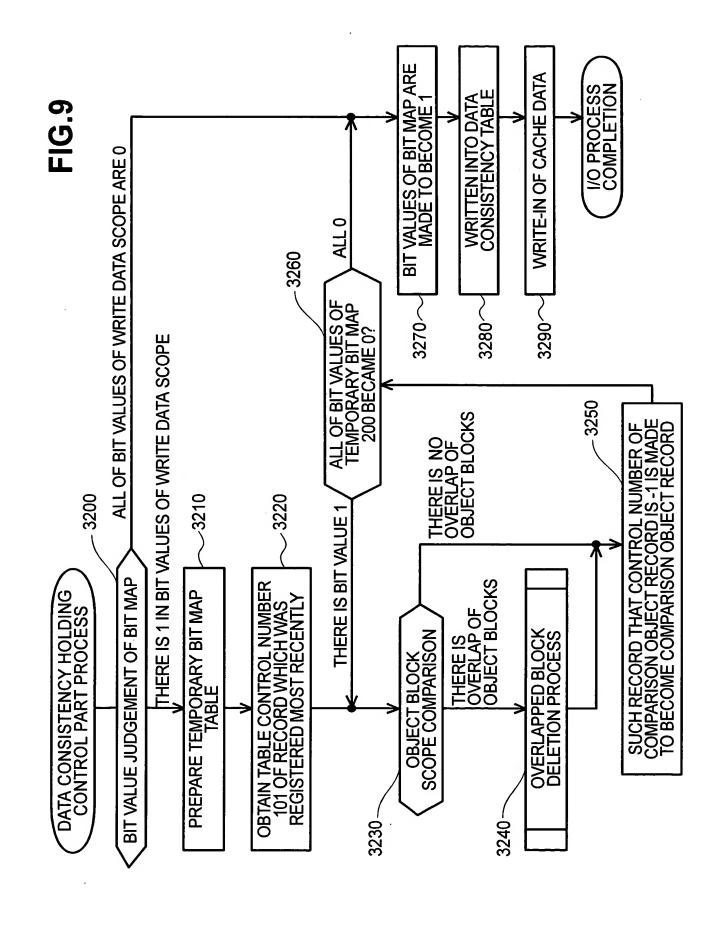
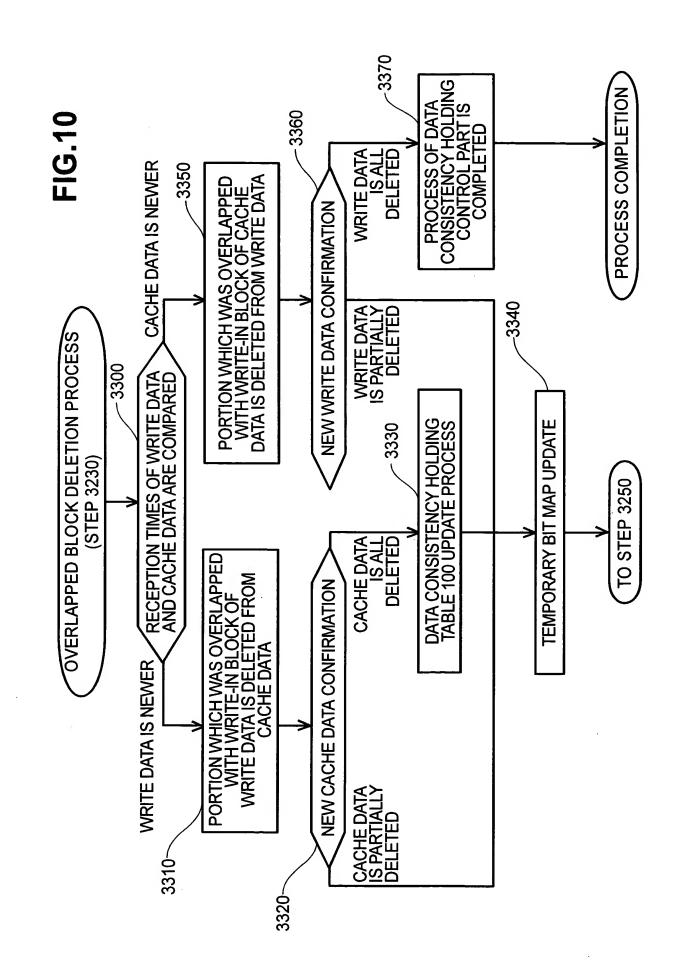


FIG.8



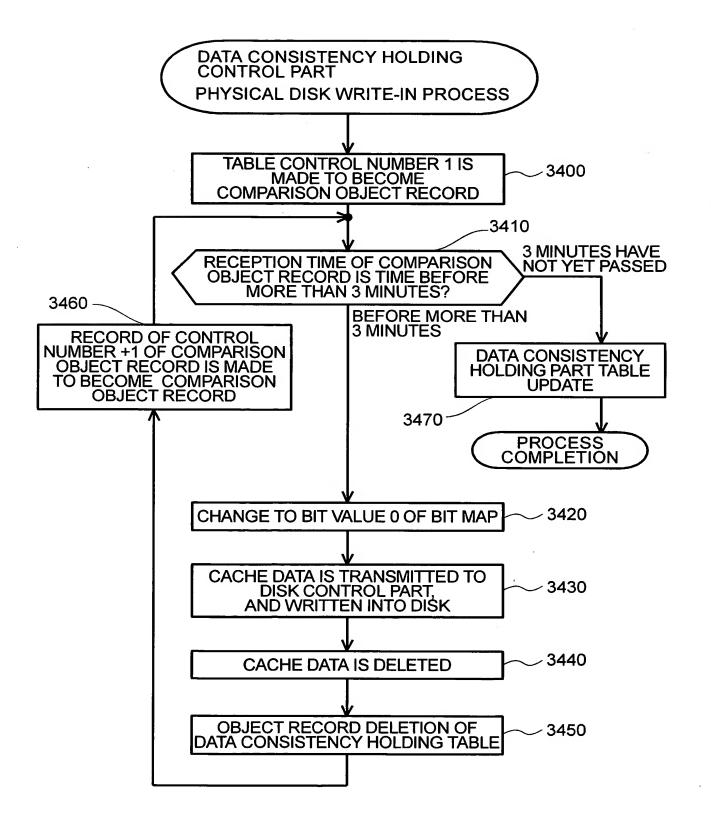


*y*,



نو •

**FIG.11** 



4010 1080 STORAGE DEVICE SYSTEM DATA CONSISTENCY HOLDING CONTROL PART **HOST I/F** 1030 SUPERIOR DEVICE DISK CONTROI PART BIT MAP 1350 \4020 MAIN CONTROL PART 4030 1300 SAN EXCLUSIVE CONTROL PART 1020 DKC IF SUPERIOR DEVICE CACHE PART 2050 1320 1050 REMOTE COPY LINE 1060 1370 PHYSICAL DISK PHYSICAL DISK 1370 4000--4000 4030 1040 CACHE PART 2050 SUPERIOR DEVICE 1320 EXCLUSIVE CONTROL PART 1070 STORAGE DEVICE SYSTEM 1010 DKC I/F MAIN CONTROL PART 1350 SAN DATA CONSISTENCY HOLDING CONTROL PART 1300 4010 DISK CONTROL PART 100 SUPERIOR DEVICE BIT MAP 4020 HOST I/F

FIG.12

. بر •

## **FIG.13**

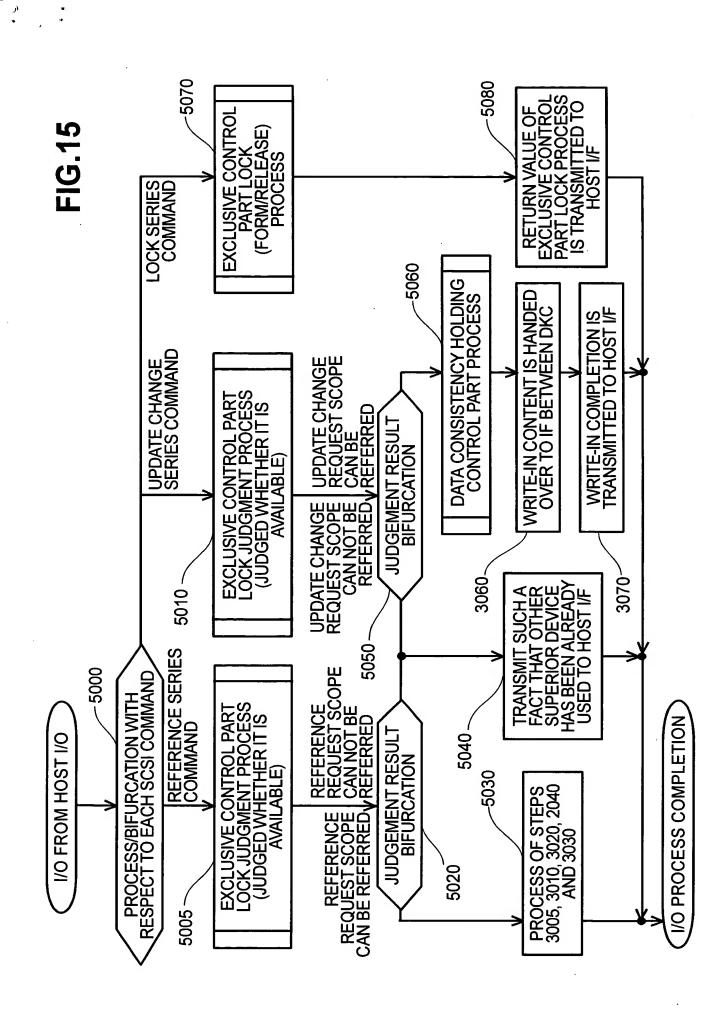
## 300 BIT MAP VALUE TABLE

BIT VALUE	EXPLANATION
0	DISK IS NOT RESERVED DISK IS IN THE MOST RECENT STATE
1	DISK IS NOT RESERVED DATA WHICH IS NOT UPDATED IN DISK EXISTS ON CACHE
2	DISK IS RESERVED IN A CERTAIN SUPERIOR DEVICE, DISK IS IN THE MOST RECENT STATE
3	DISK IS RESERVED IN A CERTAIN SUPERIOR DEVICE, DATA WHICH IS NOT UPDATED IN DISK EXISTS ON CACHE

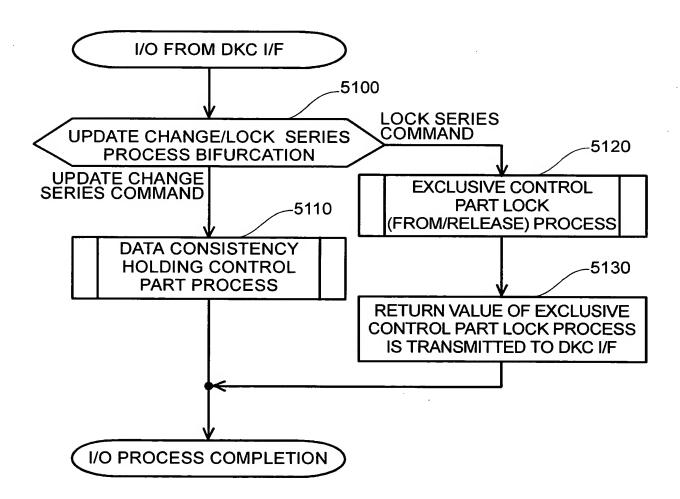
## **FIG.14**

## 400 LOCK STATE HOLDING TABLE

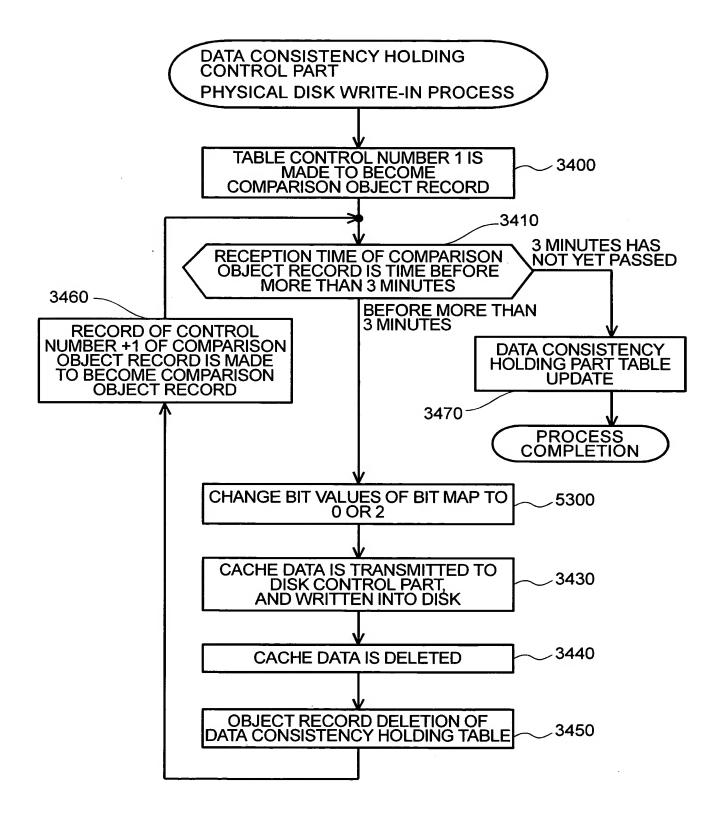
401	402	403	404	405
CONTROL NUMBER	LOCK START TIME	SUPERIOR DEVICE IDENTIFICATION NUMBER	LOCK OBJECT START ADDRESS	LOCK OBJECT SIZE

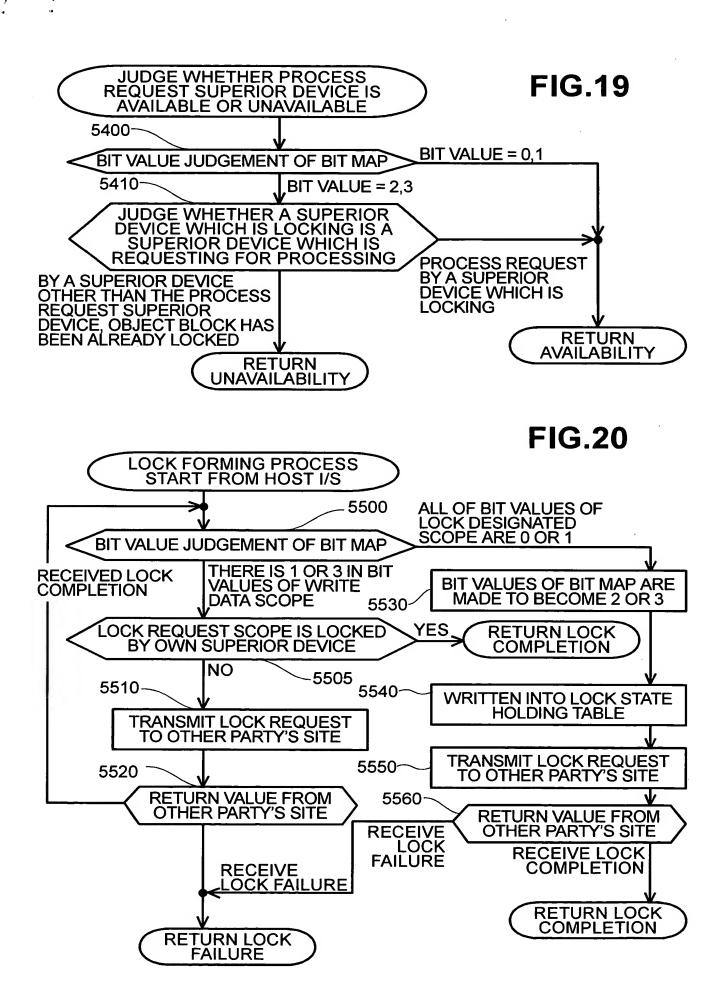


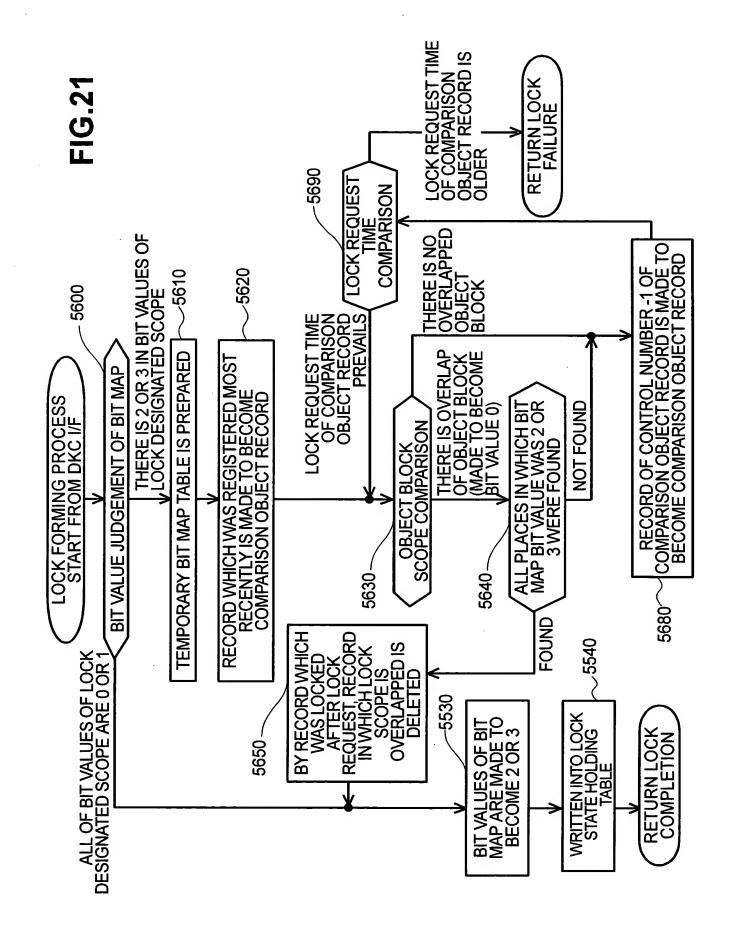
**FIG.16** 



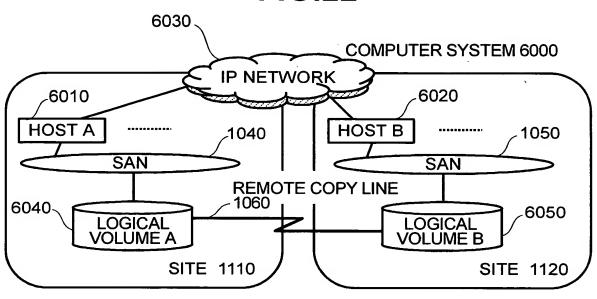
**FIG.18** 

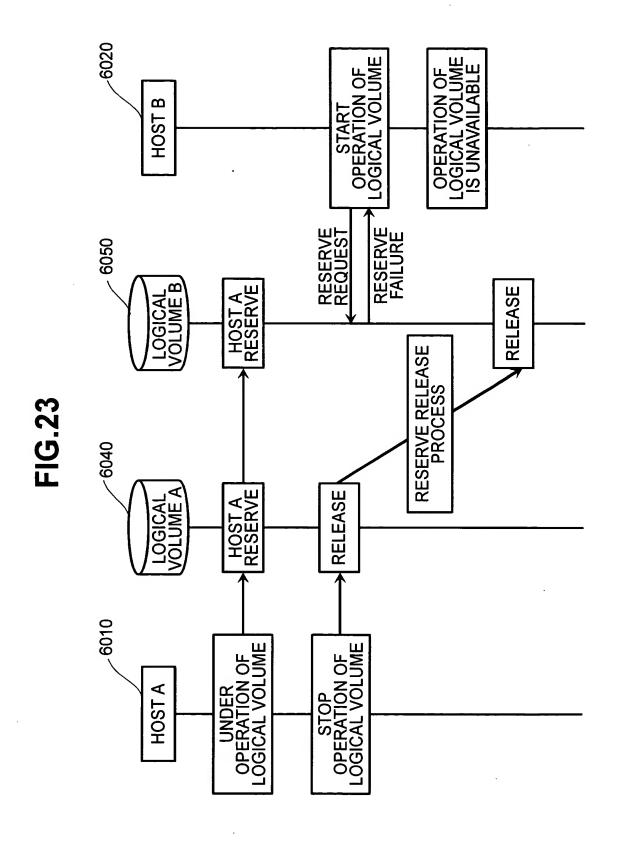




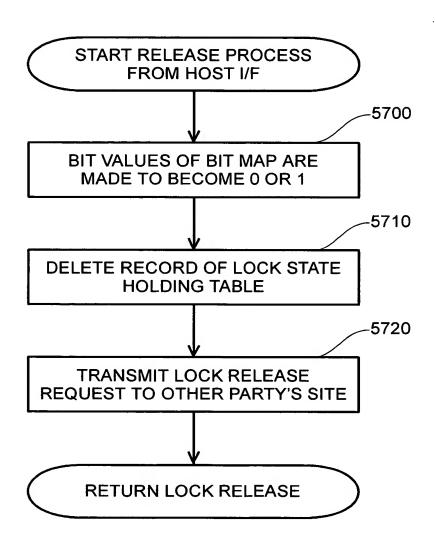


**FIG.22** 





**FIG.24** 



**FIG.25** 

